

DETAIL OF TRANSVERSE JOINT THRU BARREL OF CULVERT

- 1 UPSTREAM = 3'-5" DOWNSTREAM = 4'-0"
- (2) IF MORE THAN ONE TRANSVERSE JOINT IS REQUIRED. SEE STANDARD SHEET 703.42 FOR DETAILS.
- 3 D2 BAR LENGTH EACH SIDE OF & WALLS = 48 BAR DIAMETERS OR 1/4 (CLEAR SPAN) (USE GREATER).
- (4) FOR DETAILS AND REINFORCEMENT IN WINGS, SEE STANDARD SHEET
- (5) USE THESE BARS FOR DESIGN FILLS OF MORE THAN 2'-0".
- (6) USE THESE BARS FOR DESIGN FILLS DF 2 0" OR LESS.
- (*) #8 (10'-0" < CLEAR SPAN ≤ 13'-0") #9 (13'-0" < CLEAR SPAN) OTHERWISE D2 BAR SHALL NOT BE USED.
- (**) VARIES 12" MAXIMUM
- (****) USE TRANSVERSE JOINT WHEN BARREL IS OVER 80 FEET LONG BETWEEN HEADWALLS. USE ADDITIONAL TRANSVERSE JOINTS TO PROVIDE 50 FEET MAXIMUM SPACING BETWEEN JOINTS.

DISTANCE BETWEEN INSIDE FACE OF HEADWALL AND TRANSVERSE JOINT SHALL NOT BE LESS THAN 3-0".

(********) J4 BAR SPACING

GENERAL NOTES:

DESIGN UNIT STRESSES: CLASS B-1 CONCRETE, f'c = 4.000 psi REINFORCING STEEL (GRADE 60), fy = 60.000 psi

ALL DIMENSIONS SHOWN ARE IN INCH UNLESS OTHERWISE NOTED.

FOR DIMENSIONS AND SIZE AND SPACING OF REINFORCING STEEL, SEE STANDARD SHEET 703.45. LAP ALL LONGITUDINAL BARS A MINIMUM OF 23" AT SPLICES.

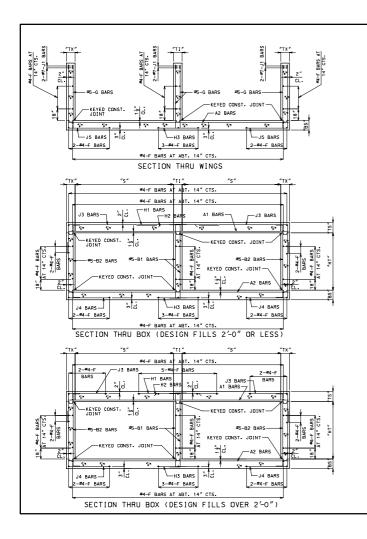
MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2" UNLESS OTHERWISE SHOWN.

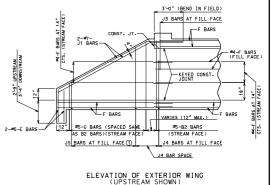
PREFORMED FIBER EXPANSION JOINT MATERIAL SHALL BE SECURELY STITCHED TO ONE FACE OF THE CONCRETE WITH NO. 10 GAGE COPPER WIRE OR NO. 12 GAGE SOFT DRAWN GALVANIZED STEEL WIRE. BEVELED HEADWALL TO BE LOCATED AT UPSTREAM END-

A FILTER CLOTH 3 FEET IN WIDTH AND DOUBLE THICKNESS SHALL BE

FOR MORE DETAILS AND SECTION THROUGH BOX, SEE 703.40 SHEET 2 OF 2.







NOTE: CONSTRUCTION JOINT KEY OMITTED FOR CLARITY.

3'-0" (BEND IN FIELD) A1 BARS I-F BARS AT 14" H1 & H2 BARS -F BARS CONST. JT. 2-#7-J1 BARS 1.7 '-9" UPSTREAM -KEYED CONST. JOINT CTS. (EACH FACE) VARIES (12" MAX. I #5-G BARS (SPACED SAME #5-B1 BARS 2-#5-E BARS-AS B1 BARS)(EACH FACE) (EACH FACE) A2 BARS H3 BARS

SECTION NEAR INTERIOR WING (UPSTREAM SHOWN)

GENERAL NOTES:
ALL DIMENSIONS SHOWN ARE IN INCH UNLESS OTHERWISE NOTED.
JI BARS MAY BE BENT IN FIELD DR SHOP.
MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2"
UNLESS OTHERWISE SHOWN.
FOR DIMENSIONS AND 512E 4ND. SPACING OF REINFORCING STEEL.
SEE STANDARD SHEET 705.3 FT.
SHEET 705.3 FT.